#### AFGHANISTAN MONSOON TIME SCALE

#### GANGADHARA RAO IRLAPATI H.NO.5-30-4/1, SAIBABANAGAR, JEEDIMETLA, HYDERABAD - 500 055, TELANGANA, INDIA.

EMAIL: scient is tgangadhar@gmail.com

<u>ABSTRACT</u>: The climate of Afghanistanis a complex subject. Afghanistanhas winter, spring, summer and autumn seasons. Surface and ground water resources are also available in the Argentina. Summer rains are intense and torrential rain is common.

Because of its geographical characteristics, the country is exposed to natural disasters such as earth quakes, severe storms, volcanic eruptions, and climatic changes. Afghanistanis a country exposed to many natural disasters, it lies south of the equator making for various different weather conditions winter months consist of droughts while summer months consist of various storms and tornadoes. Due to extreme changes in climate through the year Afghanistangets hit with a lot of natural disasters. Some of these natural disasters include floods, extreme temperatures, earth quakes, droughts, floods and tornados.

Mining in Afghanistanis an important regional producer of minerals including Aluminum, lead, copper, zinc, silver and gold etc.,

**<u>KEY WORDS</u>**: AfghanistanMonsoon Time Scale, Indian Monsoon Time Scale, Global Monsoon Time Scale.

#### **INTRODUCTION:**

By establishing the AfghanistanMonsoon Time Scale and maintain, the country can be estimated the impending weather conditions and natural calamities rains, floods, droughts and winds etc in advance. Surface water resources can stil be found.

### AFGHANISTANMONSOON TIME

**SCALE**: Afghanistanmonsoon does that Afghanistanhas a separate mean monsoon. Monsoon means a seasonal reversing wind accompanied by corresponding weather changes and natural calamities in precipitation. We cannot be said that a monsoon especially to be relevant to a particular country. In every country, every year, in a certain order seasonal winds are repeating. Each and every country has its winds monsoon and weather conditions. Keeping in view of all above geographical facts and circumstances, after studying the weather conditions and natural disasters in the Argentina, I have proposed a time scale to measure the seasonal winds of the country that is the AfghanistanMonsoon Time scale.

This is very useful to study the Afghanistanweather changes and natural calamities such as monsoon movements, rains and other weather changes in advance. The AfghanistanMonsoon Time Scale – a Chronological sequence of events arranged in between time and weather with the help of a scale for studying the past's, present and future movements of monsoon in the Afghanistanand its relationship with rainfall

and other weather conditions and natural calamities of the country.

Prepare the AfghanistanMonsoon Time Scale having 365 horizontal days from March 21st to next year March 20th of a required period comprising of a large time and weather have been taken and framed into a square graphic scale. The main weather events if any of Afghanistanhave been entering on the scale as per date and month of the each and every year. If we have been managing the scale in this manner continuously, we can study the past, present and future movements of the monsoon and other weather and its weather conditions and natural calamities of the country. The AfghanistanMonsoon Time Scale reveals many secrets of the monsoon and weather and its relationship with rainfall & other weather problems and natural calamities of the country. The tracking date of main path & other various paths of the monsoon winds on the graph, denotes the onset of the monsoon and weather changes, monsoon pulses or low pressure systems, cyclones and other disturbances etc. And also we can find out many more secrets of the monsoon or weather conditions of the Afghanistansuch as droughts, famines, cyclones, heavy rains, floods etc in the country by keen study the AfghanistanMonsoon Time Scale.

#### <u>USES</u>

By development of the AfghanistanMonsoon Time Scale and maintain, the can be study and predict the monsoon movements, weather changes and its related impending weather conditions and

natural calamities rains, floods, landslides, avalanches, blizzard and droughts, extreme winter conditions, heavy rainfall, mudflows, extreme weather, cyclones, cloud burst, sand storms, hails, and winds etc in advance.

#### **GLOBAL MONSOON TIME SCALES:**

The global Monsoon Time Scale – a Chronological sequence of events arranged in between time and weather with the help of a scale for studying the past's, present and future movements of monsoon of a country and its relationship with rainfall and other weather problem and natural calamities.

GLOBAL MONSOON TIME SCALES African Monsoon Time Scale

North American Monsoon Time Scale
Asian Monsoon Time Scale
Australian Monsoon Time Scale
European Monsoon Time Scale

REGIONAL MONSOON TIME SCALES

North American Monsoon Time Scale North African Monsoon Time Scale Indian Monsoon Time Scale Western North Pacific Monsoon Time Scale South American Monsoon Time Scale South African Monsoon Time Scale Australian Monsoon Time Scale East Asian Monsoon Time Scale

Prepare the Global Monsoon Time Scale having 365 horizontal days from March 21<sup>st</sup> to next year March 20<sup>th</sup> of a required period comprising of a large time and weather have been taken and framed into a square graphic scale. The main weather events if any of the country have been entering on the scale as per date and month of the each and every year. If we have been managing the scale of a country in this manner continuously, we can study the past, present and future movements of monsoon of a country. We can make separate monsoon time scales per each and every individual country.

SUB-REGIONAL MONSOON TIME SCALES

South Asian Monsoon Time Scale
Maritime Continent Monsoon Time Scale
East African Monsoon Time Scale
West African Monsoon Time Scale
Indo-Australian Monsoon Time Scale
Asian-Australian Monsoon Time Scale
Malaysian Australian Monsoon Time Scale
Northern Australian Monsoon Time Scale
Arizona Monsoon Time Scale
Arizona Monsoon Time Scale
South-West Monsoon Time Scale
North-East Monsoon Time Scale
South East Asian Monsoon Time Scale

#### **INDIAN MONSOON TIME SCALE**:

For example, I have prepared the monsoon time scale for India by preparing the scale having 365 horizontal days from 1st April to next year March 31st of 128 years from 1888 to 2016 of the required period comprising of large time and weather have been taken and framed into a square graphic scale. The monsoon pulses in the form of low pressure systems over the Indian region have been entering on the scale in stages by 1 for low, 2 for depression, 3 for storm, 4 for severe storm and 5 for severe storm with core of hurricane winds pertaining to the date and month of the each and every year. If we have been managing the scale in this manner continuously, we can study the past' present's and future's of the India Monsoon and its relationship with rainfall and other weather problems & natural calamities in India.

### ANALYSIS:

The India Monsoon Time Scale reveals many secrets of the Indian monsoon and its relationship with rainfall & other weather problems and natural calamities. For example, some bands, clusters and paths of low pressure systems along with the main paths of the Indian Monsoon (South-east monsoon and north-west monsoon) clearly

seen in the map of the Indian monsoon it have been some cut-edged paths passing through its systematic zigzag cycles in ascending and descending orders which causes heavy rains & floods in some years and droughts & famines in another years according to their travel. For example, during 1871-1990's, the main path of the Indian Monsoon was rising over June, July, August and creating heavy rains and floods in most years. During 1900-1920's, it was August, September and raising over resulting good rainfall in more years. During 1965-2004's it was falling over September and causing low rainfall and droughts in many years. At present it is rising upwards over June, July, August, September and will be resulting heavy rains & floods in coming years during 2004-2060. The tracking date of main path & other various paths such as south-east monsoon and north-west monsoon etc., of the Indian Monsoon denotes the onset of the monsoon, monsoon pulses or low pressure systems. And also we can find out many more secrets of the Indian monsoon such as droughts, famines, cyclones, heavy rains, floods, real images of the Indian monsoon, and onset withdrawals of south east monsoon and north-west monsoon etc. by keen study of the Indian Monsoon Time Scale.

#### **PRINCIPLE**:

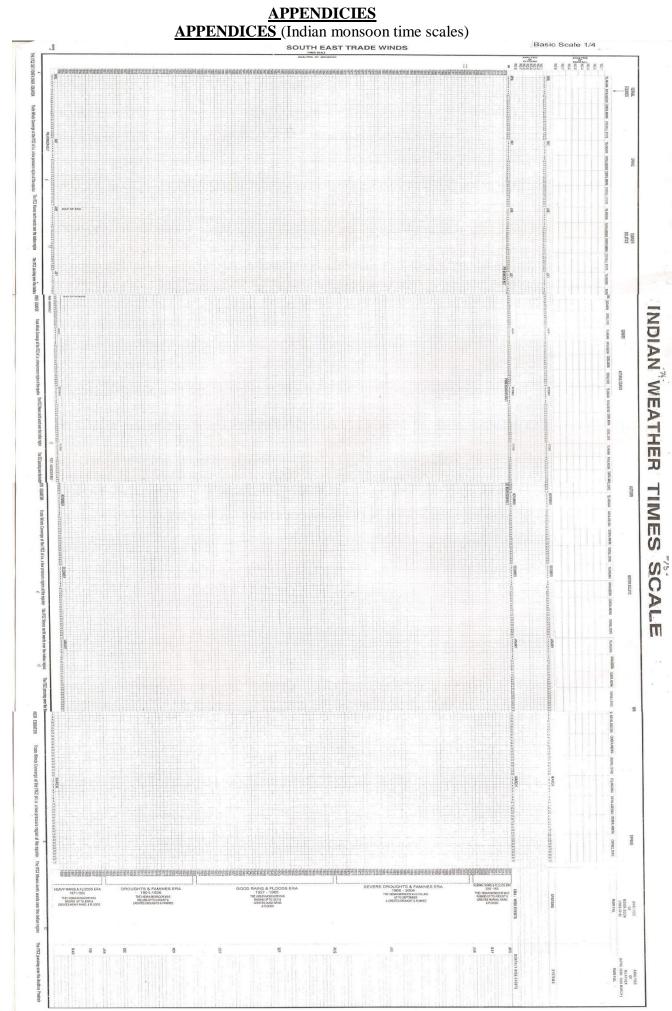
This is an Astrogeophysical / Astrometeorological phenomenon of effects of astronomical bodies and forces on the earth's geophysical atmosphere. The cause is unknown however the year to year change of movement of axis of the earth inclined at 23½ degrees from vertical to its path around the sun does play a significant role in formation of clusters, bands & paths of the Indian Monsoon and stimulates the Indian weather. The inter-tropical convergence zone at the equator follows the movement of the sun and shifts north of the equator merges with the heat low pressure zone created by the rising heat of the subcontinent due to direct and converging rays of the summer sun on the India Sub-Continent and develops into the monsoon trough and maintain monsoon circulation.

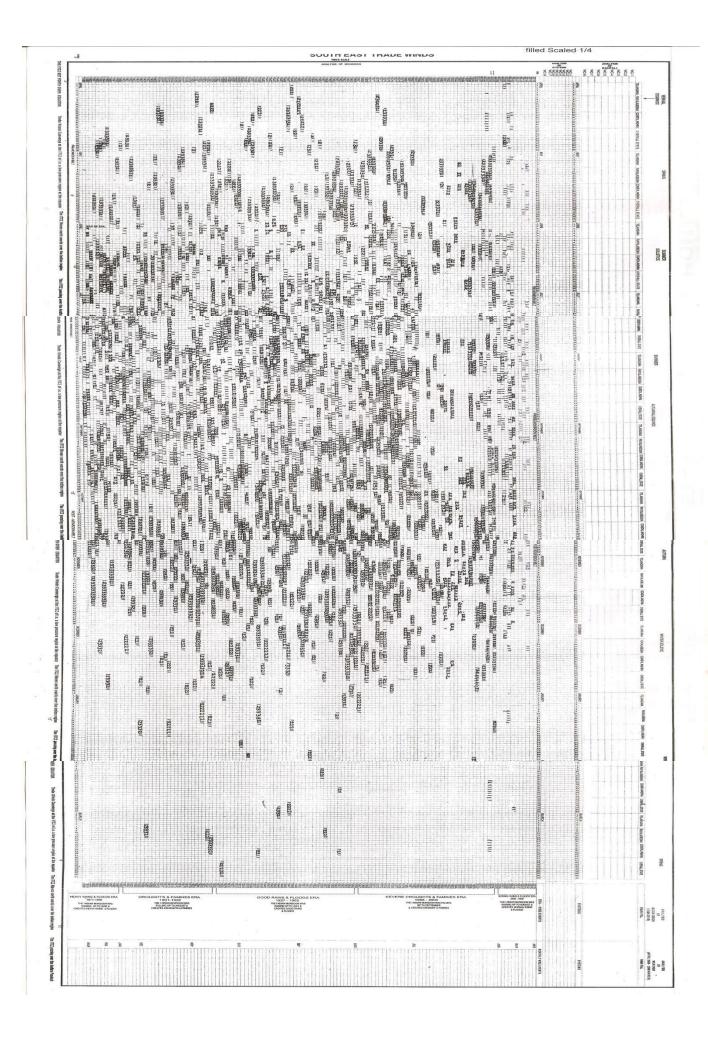
#### **CONCLUSION:**

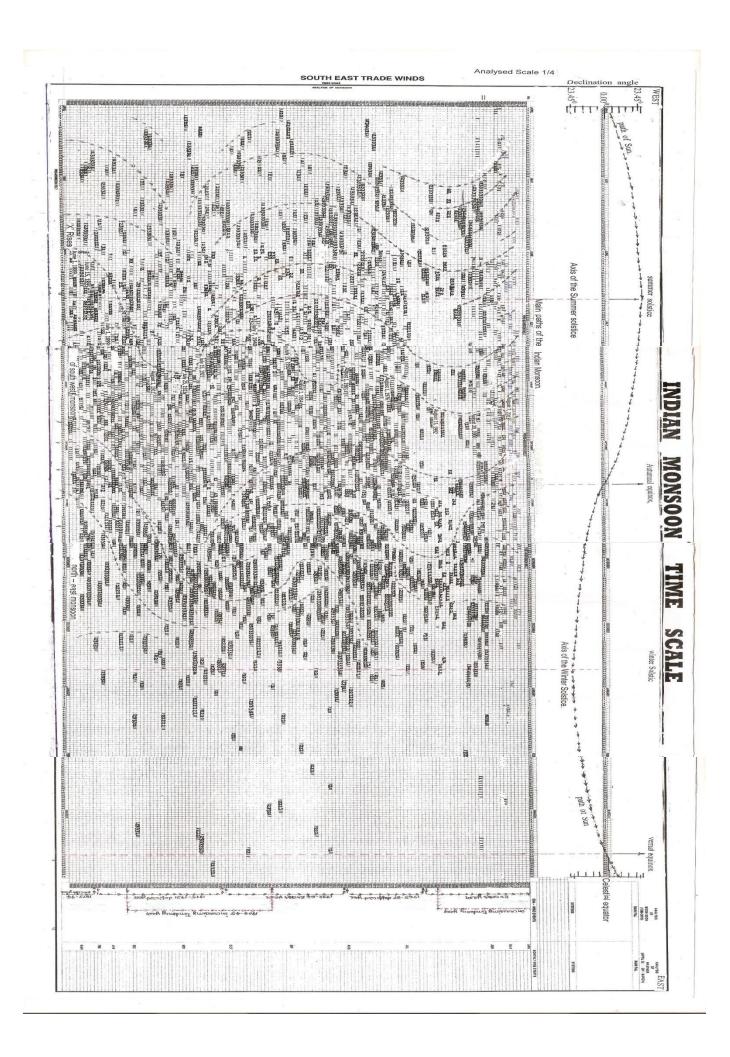
We can make many studies on the weather conditions and natural calamities of the country thus inventing many more forecasting systems and proposing mitigative measures for the welfare of people of the country Argentina.

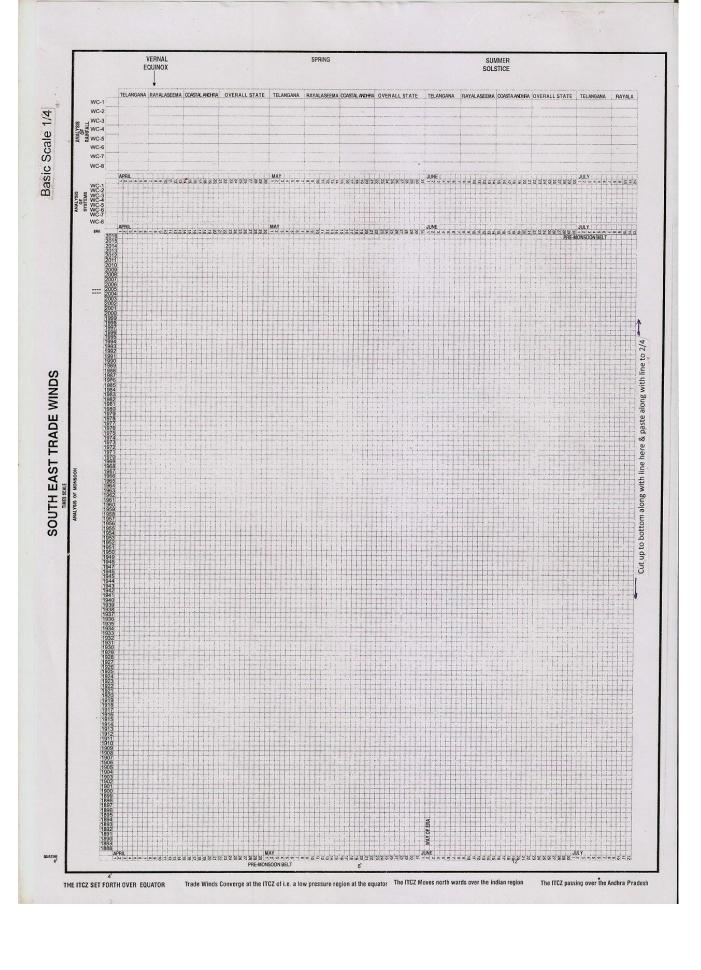
### **REFERENCES**

- 1.Mooley DA,Shukla J(1987); Characteristics of the west ward-moving summer monsoon low pressure systems over the Indian region and their relationship with the monsoon rainfall. Centre for ocean-land atmospheric interactions, university of Maryland, College Park, MD.
- 2. Das P.K. and B.L. Bose, 1958, Numerical study of movement of monsoon depression, Ind. journal of meteor geophysics,
- 3. jadhav, S.K.and A.A.Munot, 2004; statistical study of the low pressure systems during summer monsoon season over the Indian region, mausam, 55, 15-30.
- 4. Clustering of low pressure system during the Indian summer monsoon by intra seasonal oscillations, bn.goswani,rs.ajaya mohan,prince kxavier,and d.sengupta, centre for atmospheric and oceanic studies, Indian institute of science ,bangolour, india.
- 5. Composite structure of monsoon low pressure system and its relation to Indian rainfall, v.krishna murthy and rs.ajaya mohan, 2010, j.climate, 23,4285-4305







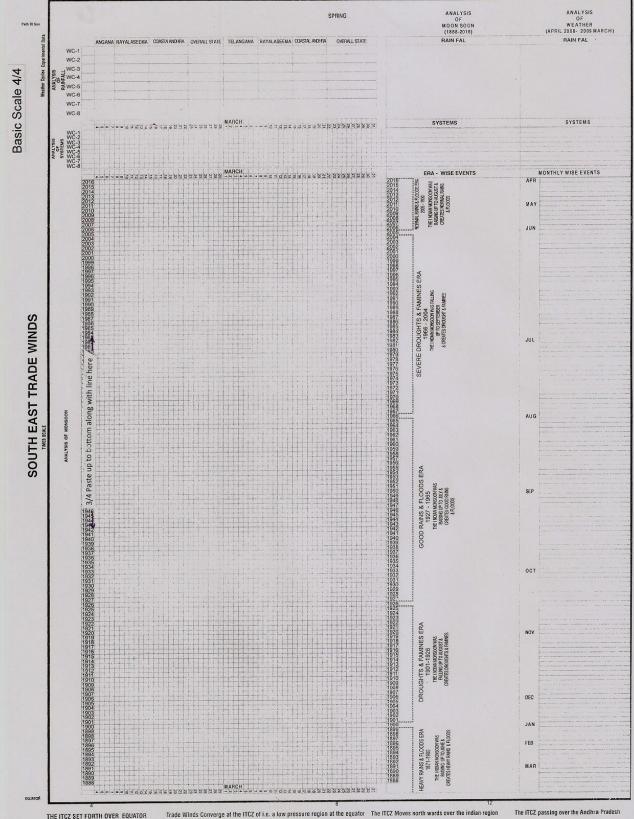


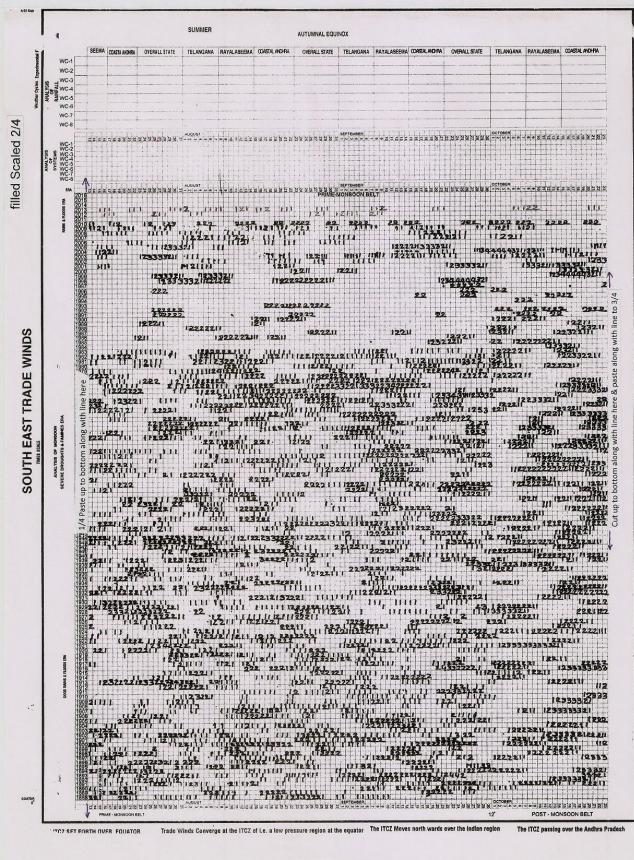
# INDIAN WEATHER

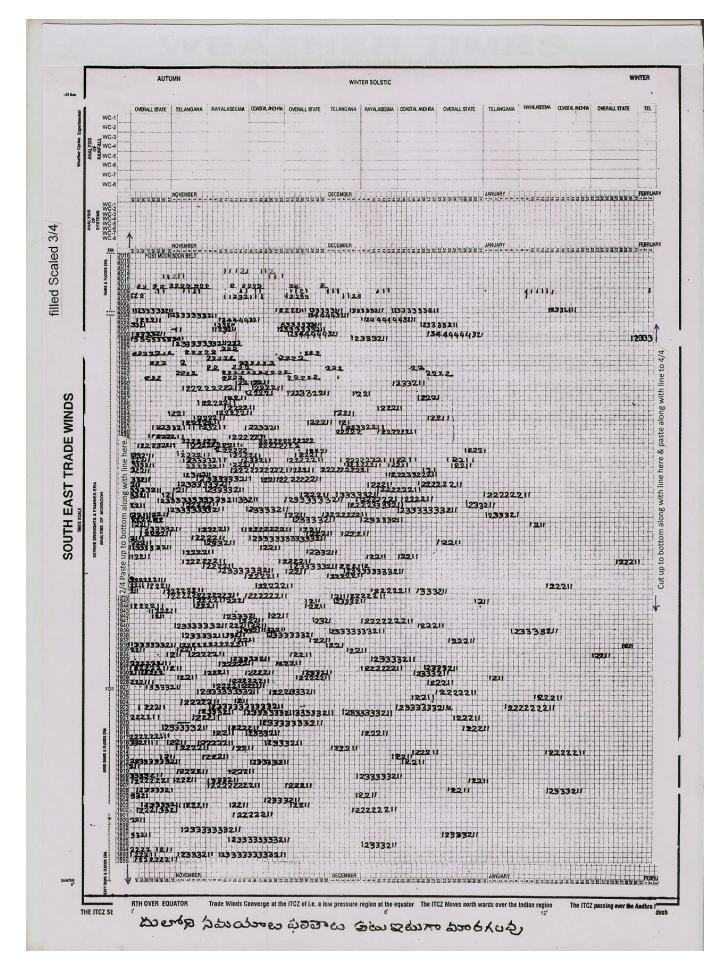
imental Data	WC-1		OVERALL STATE TELANGANA	RAYALASEEMA COASTALANDHRA	OVERALL STATE		RAYALASEEMA COASTA	LMDHA OVERALL STAT	E TELANGANA	RAYALASEEMA	COASTAL ANDHRA
Weather Cycles Experim	ANALYSIS OF POS POS POS POS POS POS POS POS POS POS				+						
Weath	WC-6 WC-7 WC-8										
1		- Intelatatata alsonio	+323313322 2-10 c + 0 e	4286666666666	22222222	SEPTEMBER		2 2 2 2 2 2 2 2 2	OCTOBER 2 8 - N U A IN G	0 0 0 1 0 0 X	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	WC-12 WC-3 WC-3 WC-4 WC-5 WC-7 WC-8								OCTOBER		
	ERA VEL SQC	2016 2015 2014 2013	ALCOST CLUBBASS SIN OF NO.	225555555555555555555555555555555555555	PRIME-N	SEPTEMBER JONSOON BI	CY SERGER	* = 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8 8 - N W P W M -	00077734	3 5 3 5 5 5 5 5
	PAUNS & FLOODS ERA	2017 2010 2008 2008 2008									
1		2006 2005 2004 2003 2003 2002									
1		2001 2000 1999 1998 1997									
-		1995 1994 1993 1992									
1		1988 1988 1987 1986 1985									
		1963 1982 1981 1980									
-		978 978 978 978 978									
-	S ERA	th line h									
IIMES SUNTE	ANALYSIS OF MONSOON SEVERE DROUGHTS & FAMINES ER	to bottom along with line here									
amil a	ANALYSIS VERE DROUG	sottom s									
	W	e up to									
I		1/4 Paste up									
-		1948 1948 1941 1940									
		1938 1936 1935 1935 1933									
		1932 1931 1930 1929 1928									
1		1926 1925 1924 1923 1923 1921 1920 1919 1918									
	FLOODS EPA	1920 1918 1918 1917 1916 1915 1915									
	GOOD PAINS & FLOODS EPA	1914 1913 1912 1911 1910									
1	To a second	1909									
		1903 1902 1901 1900 1899 1898									
		1896 1895 1894 ≰									
		1891 1890 1889	AUGUST AU			SEPTEMBIR			OCTOBER		
L		PRIME - MONSOON BI	el T	e at the ITCZ of i.e. a low pre					12	POST - MON	SOON BELT

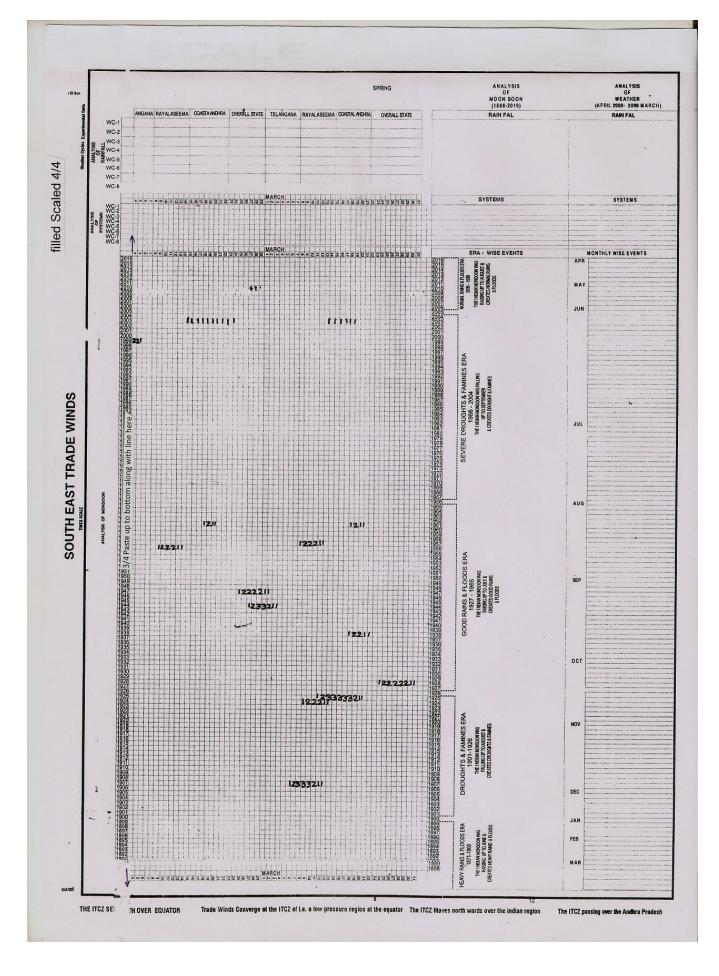
# TIMES SCALE

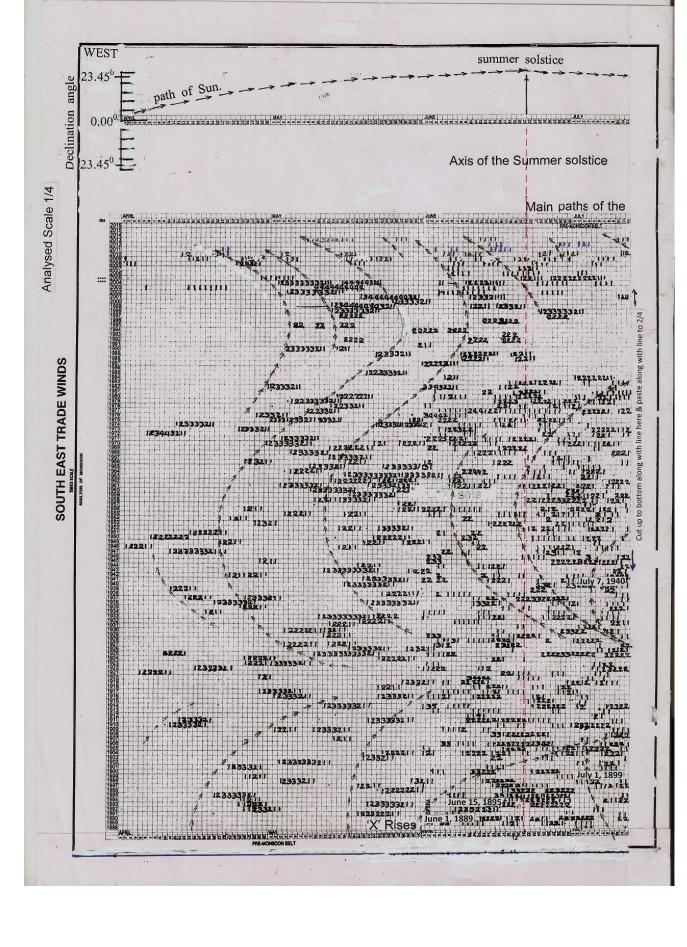
1	AUTUMN						WIN	TER SOLSTIC							
imental Data	WC-1	OVERALL STATE	TELANGANA	RAYALASEEMA	COASTAL AND FRA	OVERALL STATE	TELANGANA	RAYALASEEMA	COASTAL AND FRA	OVERALL STATE	TELANGANA	RAYALASEEMA	COASTAL AND FA	OVERALL STATE	TEL
yeles Experi	ANALYSIS OF RAINFALL P. O.					1			4						
Weather Cycle	WC-6		1									ļ			
1	WC-7 WC-8		NOVEMBER				DECEMBER	1	irriera		JANUARY []				FEBRUAR
	WC-1 WC-2 WC-3	2222222	2-20-00	* * 5 2 2 2 3	6586828	10203233	5 - 20 0 + 0 0	5 = 5 G		8 2 2 2 2 2 2 2 2 2 2	2 4 1 6 6 6 6	0 0 5 2 5 5		NUAUG SEES	
1	SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWALTSIA SWA						Hali								Ш
1	ERA 20	16 POST MOOF	NOVEMBER N SOON BELT	5 = 5 5 F F	6 7 6 6 2 2	12223333	DECEMBER 5 - N W A W M	e s = s a	12828232	a rick rick R	JANUARY	e e e e e e e	6 - 6 - 6 - 2 <u> </u>	222222222	FEBRUAF 3 - N 3
	API 20001 & FUNDA EPUNA 64 FUNDA EPUNA 64 FUNDA	14 13 12													
	SHIPA 20	10 09 08 07													
1		05 04 03 02													
1	20 20 15 15	01 00 99 98													1
1	100	96 95 94 93													1
	100	91 90 89 88													
	10000	67 86 85 84													
	170	62 81 80 79													
		7 <b>9</b> 76 9													
	2	ne her	liilii												
	SOON	with													
TIMES SCALE	SEVERE DROUGHTS & FAMINES ERA ANALYSIS OF MONSOON	to bottom along with line here													
AL.	RE DROUC	otto													
		9													
		Paste													
	1	ZE 2/4													
1		94 <b>4</b> 94 <b>0</b> 939 938													
		936 935 934 933													
The same	1	932 931 930 929													
1		927 926 925 924	a short in the same												
1		258													
	DOOD MINS & ROODS EM	918 917 916 915													
	DOOD PAINS 8	915 914 913 912 910													
	11	910 909 908 907 906													
	The state of the s	905 904 903 902 901													
	The state of the s	900 899 898 897													
	S FRA	895 894 893 892													
IR of	HEAVY RAINS & FLOODS ERA	890 889 888					DECEMBEO				JANUARY				FEBRUA





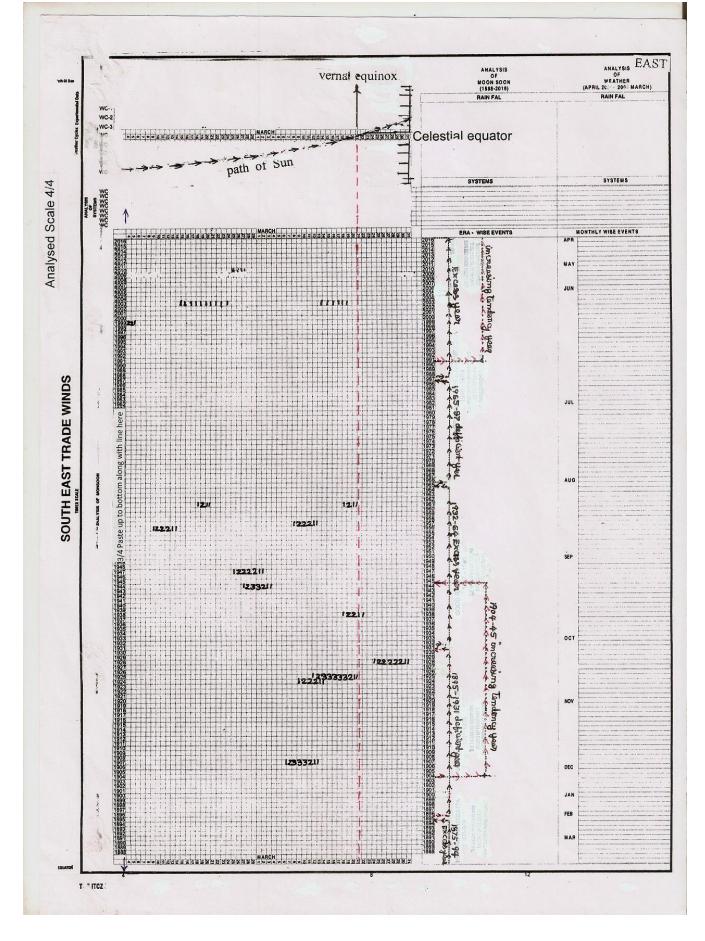






TIME SCALE winter Solstic Analysed Scale 3/4 Axis of the Winter Solstice. ANALYSIS OF SYSTEMS UTH EAST TRADE WINDS | 123333333321/ | 1233333333321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 12333321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 1233321/ | 12333

THE ITCZ SET

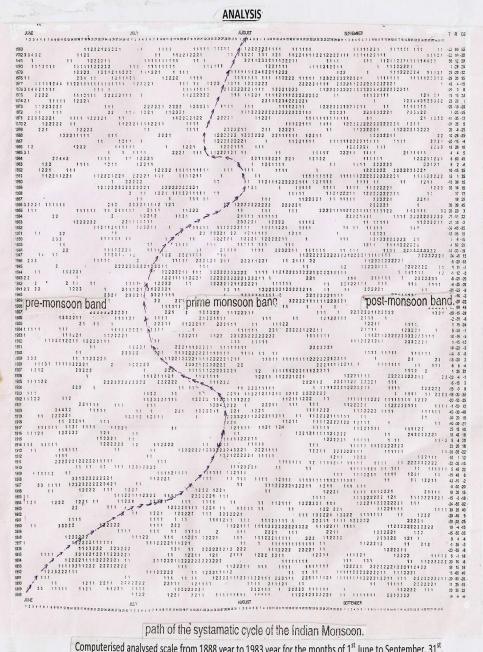


## MAP OF THE INDIAN MONSOON

ANALYSIS

(JUN:SEP) THE NY. WORL STATEMENT OF THE CONTRACT OF T

Computerised basic scale from 1888 year to 1983 year for the months of 1st June to September, 31st



path of the systamatic cycle of the Indian Monsoon.

Computerised analysed scale from 1888 year to 1983 year for the months of 1st June to September, 31st.